SIEMENS

MOBILETT Plus/ -E/ -M

SP

Service

Repair Instruction

Replacement of the inverter

Kit part no. 83 92 735

© Siemens AB 2004
The reproduction, transmission or use of this document or its contents is not permitted without express written authority. Offenders will be liable for damages. All rights, including rights created by patent grant or registration of a utility model or design, are reserved.

English
Print No.: SPR8-215.841.01.01.02
Doc. Gen. Date: 03.04
Replaces: n.a..

Chapter	Page	Revision
All	All	01

Document revision level

The document corresponds to the version/revision level effective at the time of system delivery. Revisions to hardcopy documentation are not automatically distributed.

Please contact your local Siemens office to order current revision levels.

Disclaimer

The installation and service of equipment described herein is to be performed by qualified personnel who are employed by Siemens or one of its affiliates or who are otherwise authorized by Siemens or one of its affiliates to provide such services.

Assemblers and other persons who are not employed by or otherwise directly affiliated with or authorized by Siemens or one of its affiliates are directed to contact one of the local offices of Siemens or one of its affiliates before attempting installation or service procedures.

Contents 0 - 3

Page

1 Prerequisites 1 - 1

General . . . . . 1 - 1
Training of customer support engineers . . . . . 1 - 1
Document required . . . . . 1 - 1
Components included in kit 83 92 735 . . . . . 1 - 1
Tools required . . . . . 1 - 1
Time required . . . . . 1 - 1
Safety information . . . . . 1 - 1
Important note . . . . . 1 - 2

2 Replacing the inverter 2 - 1

3 Appendix 3 - 1

P08 . . . . . 3 - 1
P16 . . . . . 3 - 1

Contents

Page

General

Inverter D13 with part no. 60 77 270 and inverter D13 with part no. 65 28 314 are no longer available. They were replaced by 66 39 319.

When replacing an old type with the new one, the existing firmware has to be replaced by V1.7 (part no. 70 24 073) for MOBILETT Plus/ -M or by V1.7E (part no. 70 24 081) for MOBILETT Plus E.

Training of customer support engineers

Due to the technology used in this equipment, setup, service and maintenance should be performed only by customer support engineers who have work authorization for MOBILETT Plus.

Document required

Service Instructions for MOBILETT Plus/ -E/ -M.

Components included in kit 83 92 735

Article	Quantity	Part no.
Firmware kit: V1.7	1	70 24 073
Firmware kit: V1.7E	1	70 24 081
Inverter D13	1	66 39 319
Repair Instruction (this instruction)	1	SPR8-215.841.01.01.02

Tools required

Standard tool kit.

Time required

Replacement of inverter and firmware: approximately 1 hour for 1 person.

Safety information

Observe all safety information and protective measures in the document Service Instructions and pay special attention to the notes below.

⚠DANGER

High voltage!

Life-threatening hazard of electric shock. Never work with the system open if the capacitor is charging or has just been charged.

The capacitor bank may still be charged even if the system is switched OFF and the line voltage cable is disconnected.
The capacitor bank must be considered charged until the protective measures listed in the document Service Instructions have been performed.

Important note

Due to the exchange of PROMs described in this document some of the functions have changed. These changes are described below.

Present firmware	Replacing firmware	Functional changes
V1.6 (E)	V1.7 (E)	• No functional changes.
V1.5 (E)	V1.7(E)	• No functional changes.
V1.4 (E)	V1.7 (E)	• New anode rotation control. • The anode braking time has been increased from 7 s to 9 s. • Service programs P05 (automatic maintenance test), P12 (inverter and single tank test) and P13 (inverter test) have been removed.
V1.2 (E)	V1.7 (E)	• New anode rotation control. • The anode braking time has been increased from 7 s to 9 s. • Service programs P05 (automatic maintenance test), P12 (inverter and single tank test) and P13 (inverter test) have been removed.
V1.1 (E)	V1.7 (E)	• New anode rotation control. • The anode braking time has been increased from 7 s to 9 s. • Service programs P05 (automatic maintenance test), P12 (inverter and single tank test) and P13 (inverter test) have been removed. • Max. preparation time has been increased from 10 s to 20 s.

The following documents have been changed by the exchange of PROMs:

- Function Description SPR8-215.850.01.02...
- Maintenance Instructions SPR8-215.831.01.02...
- Maintenance Protocol SPR8-215.832.01.02...
- Service Instructions SPR8-215.898.01.02...
- Wiring Diagram SPR8-215.051.01.06...

These (or later revision levels) are available on the Intranet.

Exchange inverter and PROMs

When exchanging the "old" inverter with part no. 60 77 270 or 65 28 314 with 66 39 319 it is also necessary to exchange the present firmware.

Different firmware is available for MOBILETT Plus/ -M and MOBILETT Plus E. Exchange PROMs in position I72, I66 and I74 with the following:

MOBILETT	Firmware kit	Part no.
MOBILETT Plus/ -M	V1.7	70 24 073
MOBILETT Plus E	V1.7E	70 24 081

Work routine

1. Mains voltage OFF.
2. Discharge the capacitor bank. The procedure is described in the document Service Instructions.
3. Mains voltage ON.
4. Set position 1 on switch S1 located on board D1 to position ON (service mode).
5. Run the service programs P08 (Display the message history) and P16 (Show the exposure counter). The procedure is described in the document Service Instructions. The information in these programs will be lost after the PROMs have been exchanged. Write down the information in the attached tables in chapter "Appendix" and file it under register 10 in the Technical Manual.
6. Mains voltage OFF.
7. Exchange the inverter located on the right-hand side.
8. The PROMs in position I72, I66 and I74 are located on board D1 under the top cover. Select a firmware kit depending on the MOBILETT model (see table above). Replace each PROM with a new PROM marked with the same letters.
9. Mains voltage ON.
10. Run the adaptation program P10. The procedure is described in the document Service Instructions. The program is done when PASS is shown on the display. This will take approximately 20 minutes.
11. Set position 1 on S1 to position OFF.
12. Mains voltage OFF.
13. Remount the top, front and side covers.

14. Check the function by making one exposure.
15. In the chapters "Operation" (sub chapter "Exposure release switch") and "Display messages" (sub chapter "USE xx: Important message") in the **Instructions for Use**, check the maximum preparation time. If it is 10 seconds, change it to 20 seconds. Sign and write the date on the side. Inform the customer of the change if applicable.

This page intentionally left blank.

P08

Appearance number	Message history

P16

Total amount of exposures.....

This page intentionally left blank.